Optimal cleaning and drying of automotive car and truck batteries with sophisticated technology

The Advantage:

- Full stainless steel construction (316Ti)
- One-piece manufactured and sealed, low energy consumption
- Nozzle arm disassembling without tooling for easy cleaning
- Special open Conveyor grid for washing and drying of battery bottom
- Stainless steel electric tank heating elements and temperature control
- Special spiral heating made of heat resistant inox prevent burn-through
- Wash water cascade flow system
- Double-walled heat and noise insulation
- Central drain pipework
Basic machine
The base unit is a one-piece steel structure and serves as a support for all other assembly groups.

Battery input unit
Input of batteries onto the special conveyor belt of the washing/drying machine.

Alkali wash zone
Distribution of the wash water onto the total surface of the battery included dead corners and angles. The wash systems consist of individual wash arms with mounted swivelling jet nozzles for easy handling. For best wash result a detergent has to be added.

Final rinse zone
Fresh water at the final rinse sprayed by flat jet nozzles from all sides through the battery. A wetting agent is injected to improve drying properties.

Out blowing zone
Through inclined jet nozzles, which are arranged above the battery, air is blown onto the battery.

Drying zone
Batteries are blowing dry by means of blower using hot air coming from the heating register.

Battery output
Output of the batteries to the finishing line.

Description of function
The task is optimal cleaning and drying of car and truck batteries of sulphuric acid. The transport through the individual wash zones is effected straight on a continuous special stainless steel belt for a safe transport of the items and therefore a long service life. A Lateral guide will keep the batteries in line and is one side adjustable for different battery width.

Technical specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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<tbody>
<tr>
<td>Battery type</td>
<td>automotive car and truck batteries</td>
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<tr>
<td>Capacity</td>
<td>up to 10 batteries/min (depending on conveyor speed)</td>
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<tr>
<td>Weight of batteries</td>
<td>20 – 70 kg</td>
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<tr>
<td>Dimension of machine</td>
<td>L = 9990 mm W = 1000 mm H = 1700 mm</td>
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<tr>
<td>Construction</td>
<td>Full acid proof Material, Stainless steel 316Ti Plastic PP and PVC Pieces not acid resistant with special protection</td>
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<tr>
<td>Electric</td>
<td>230/400V, 3-Phase, 50/60 Hz, 4 Wire</td>
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<tr>
<td>Control voltage</td>
<td>230V AC</td>
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<tr>
<td>Power consumption</td>
<td>50,0 kW; 80 A</td>
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